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Research Paper :

Influence of phosphorus and FYM on content and uptake of nutrients by groundnut and soil fertility of *Vertic ustochrepts* under rainfed conditions

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ABSTRACT

A field experiment was conducted during 1985 to 1996 on *Vertic ustochrepts* soils at Main Dry Farming Research Station, Targhadia (Gujarat) to study the effect of periodical application of phosphorus with and without FYM on content and uptake of nutrients by groundnut and soil fertility. The results revealed that the content of N, P and K in pod and haulm of groundnut and their total uptake as well as protein content were increased due to application of FYM and phosphorus. Significant positive effect of applied FYM was observed on status of organic carbon and available P, K and S in the soil. The organic carbon content and available status of potassium in the soil could not significantly alter due to periodical application of phosphorus. However, application of P was found beneficial in respect to available status of P and S in the soil.

Key words : Groundnut, FYM and phosphorus, Nutrient contents and uptake, Soil fertility